

**High Capacity**  
**Low Operating Temperature**



### TYPICAL APPLICATIONS

- Military Training Systems
- Back-up Server Power
- Rugged, Portable Electronics

### STANDARDS COMPLIANCE

- SMBus v 1.1 smart battery technology compliant
- SBD v 1.1 smart battery dataset compliant
- MIL-STD-810G compliant
- MIL-STD-461F (EMI) compliant
- UN/DOT Transportation 38.3 T1-T8 compliant
- Manufactured under ISO 9001:2008 certified quality system

### KEY FEATURES

- Charging, discharging and SMBus capabilities available via the connector or flat contacts
- High Capacity (20% increase vs. PB-LW-02)
- Low operating temperature (-30°C / -22°F)
- 5-segment State-of-Charge (SOC) display
- High energy density

### COMPATIBLE CHARGERS

- **PC-6010-02** 1-bay tactical portable smart charger
- **PC-6805** 8-bay tactical portable smart charger
- **PC-3200M/C** 32-station bulk smart charger

### COMPATIBLE CABLES

- **PE-CC2-04** discharge cable

### COMPATIBLE BATTERY TESTER/ANALYZER

- **PE-BT-03**

### BATTERY SPECIFICATIONS

**Model No:** PB-LWH-02

**Voltage Range:**

10.0V min.; 14.8V nom.; 16.8V max.

**Nominal Capacity:**

8.7 Ah @ 500mA @ 23°C (74°F)

**Maximum Discharge:**

4.0 A continuous @ 23°C (74°F)

**Maximum Pulse Discharge:**

6.0 A for 5 seconds @ 23°C (74°F)

**Energy:** 128 Wh

**Energy Density:** 156 Wh/kg, 216 Wh/l

**Weight:** 818 grams (1.8 lbs.)

**Cycle Life:**

> 300 cycles @ C/5 to 80% of initial capacity @ 100% depth of discharge

**Operating Temp:** -30°C to +60°C (-22°F to +140°F)

**Storage Temp:** -20°C to +50°C (-4°F to +122°F)

**Self-Discharge:** < 3% per month @ 25°C (77°F)

**Housing:** Hard plastic, black, lusterless, UL 94 V-0, NORYL

**Connector:** LEMO HEN.1F.305.XLNP

**Mating Connector:**

LEMO FGN.1F.305.YLC or LEMO FGN.1F.305.XLC

**Flat Contacts:** Copper alloy with gold plating over nickel plating

**Communication:** SMBus v1.1 communication protocol  
SBD v1.1 data set support

**State of Charge Indicator:** 5 segment LCD display

**Safety:** See Safety Data Sheet – SDS053

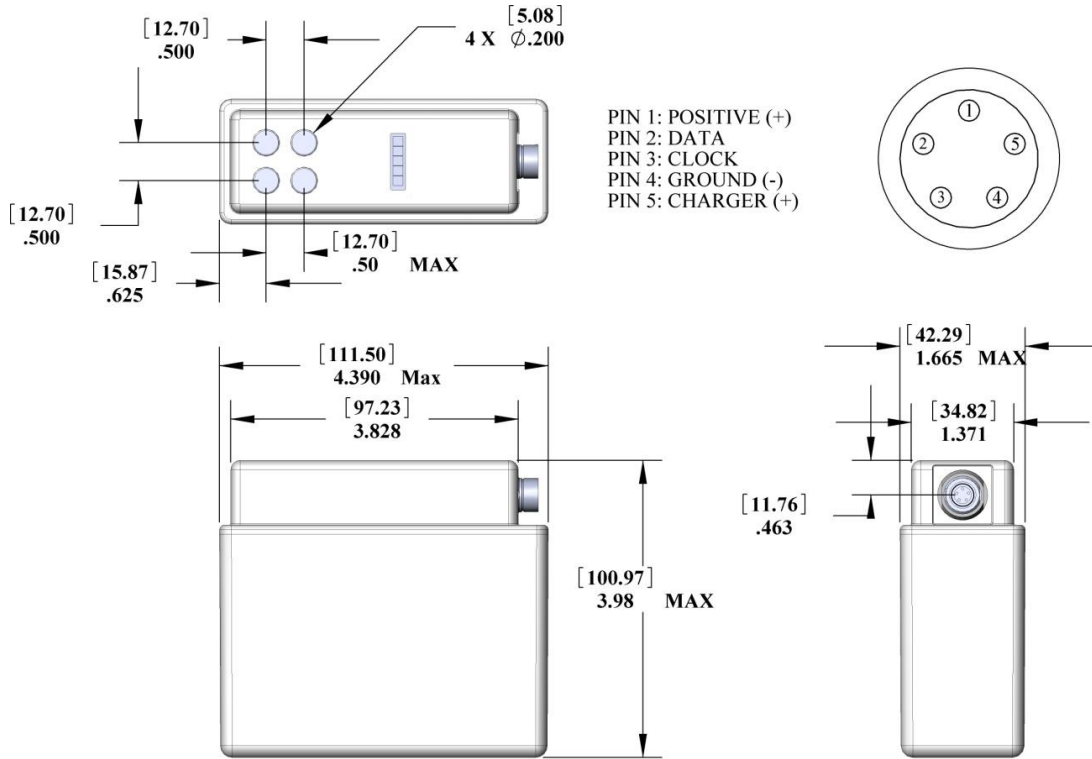
**Transportation:** See Safety Data Sheet – SDS053

**Export Classification:** EAR99

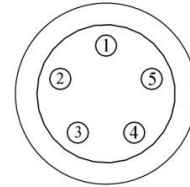
**Harmonized Tariff Schedule:** 8507.60.0020

**Charging:** Charge at constant voltage of 16.8 Volts in a temperature range of 0°C to +45°C (+32°F to +113°F), limiting current to 3.0 A max, at 23°C, until current declines to 200 mA.

**Charging Method:** The battery should be charged using a constant current/constant voltage (CC/CV) charging method.



PIN 1: POSITIVE (+)  
 PIN 2: DATA  
 PIN 3: CLOCK  
 PIN 4: GROUND (-)  
 PIN 5: CHARGER (+)



Dimension in: inches [mm]

